

Translation

PATENT COOPERATION TREATY

PCT/JP2003/011209



PCT

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference DP-943PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/JP2003/011209	International filing date (day/month/year) 02 September 2003 (02.09.2003)	Priority date (day/month/year) 04 September 2002 (04.09.2002)
International Patent Classification (IPC) or national classification and IPC H01P 3/08, H01G 4/00, 9/00		
Applicant NEC CORPORATION		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 16 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 02 September 2003 (02.09.2003)	Date of completion of this report 16 April 2004 (16.04.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/JP2003/011209

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages 1-5, 13-35, as originally filed
 pages _____, filed with the demand
 pages 6-12, filed with the letter of 26 January 2004 (26.01.2004)
- ☒ the claims:
 pages 8, 10, 16-22, 27, 28, 30, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages 1, 3-7, 11-15, 23-26, 29, 31, 32, filed with the letter of 26 January 2004 (26.01.2004)
- ☒ the drawings:
 pages 1-15, 17-38, as originally filed
 pages _____, filed with the demand
 pages 16, filed with the letter of 26 January 2004 (26.01.2004)
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. 2, 9
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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International application No.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	10-32	YES
	Claims	1, 3-8	NO
Inventive step (IS)	Claims		YES
	Claims	1, 3-8, 10-32	NO
Industrial applicability (IA)	Claims	1, 3-8, 10-32	YES
	Claims		NO

2. Citations and explanations

Document 1: JP, 2002-194760, A (NEC Corp.), 7 June, 2002 (07.06.02), full text, all drawings
 Document 2: JP, 2000-150304, A (PFU Ltd.), 30 May, 2000 (30.05.00), full text, all drawings
 Document 3: JP, 11-219847, A (TDK Corp.), 10 August, 1999 (10.08.99), full text, all drawings
 Document 4: JP, 3-167816, A (Marcon Electronics Co., Ltd., et al), 19 July, 1991 (19.07.91), page 2, upper right column, lines 11-17, all drawings
 Document 5: JP, 2001-119154, A (NEC Corp.), 27 April, 2001 (27.04.01), full text, all drawings
 Document 6: JP, 2002-184651, A (Nippon Chemi-Con Corp.), 28 June, 2002 (28.06.02), full text, all drawings

Claims 13-8

Document 1 describes a noise filter of distributed constant type of a strip line structure made by (1) making undulations on the surface of an aluminum foil 21 by means of etching treatment, (2) forming oxidized film 22b as a dielectric over the said surface, and (3) forming a solid electrolyte layer 22c such as a conductive polymer layer and a graphite and silver paste layer 22a over the said oxidized film layer both as counter electrodes, and further describes four lead terminals connected in Fig. 10. A constitution wherein the lead terminals are connected to through holes or the section shapes of the filter could have been chosen by a person skilled in the art as required. Accordingly, the subject matters of the above claims are the same as the noise filter of distributed constant type described in document 1, and so do not appear to be novel.

Claims 10-16

Documents 2 and 3 describe lead terminals of capacitors. The shapes of the lead terminals is a matter of choice that a person skilled in the art could have made as required. Accordingly, the subject matters of the above claims do not appear to involve an inventive step.

Claims 17-22

Document 4 describes that aluminum and tantalum are used as valve-acting metals of a solid electrolyte capacitor and that polypyrrole, polythiophene or polyaniline and these derivatives are used as a conductive polymer. A person skilled in the art could have easily conceived of using the materials described in document 4 as materials for the noise filter of distributed constant type described in document 1, and so the subject matters of the above claims do not appear to involve an inventive step.

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of : V.2

Claims 23-31

Document 5 describes that a decoupling capacitor, etc., is formed on a multi-layered printed circuit board, and a person skilled in the art could have easily conceived of forming the noise filter of distributed constant type described in document 1 on a multi-layered printed circuit board. Accordingly, the subject matters of the above claims do not appear to involve an inventive step.

Claim 32

Document 6 describes a method of manufacturing a chip-type solid electrolyte capacitor wherein an element in a lead frame is formed and then cut, and a person skilled in the art could have easily conceived of the subject matter of claim 32 by applying the said method of manufacturing to the noise filter of distributed constant type described in document 1. Accordingly, the subject matter of the above claim does not appear to involve an inventive step.